

WHAT IS CLAIMED IS:

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1. A permanent magnet motor which comprises, as an assembly:

(a) a stator having a plurality of stator teeth; and

(b) a rotor coaxially inserted into the stator, which is a cylindrical permanent magnet having magnetically anisotropic orientation in a single diametral direction perpendicular to the cylinder axis and magnetized to have a plurality of evenly disposed magnetic poles around the circumference of the cylinder,

in which the number of the magnetic poles k of the rotor is an even number not exceeding 100 and the number of the stator teeth n is equal to $3n_0$, n_0 being a positive integer not exceeding 33, with the proviso that k is not equal to n .

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